

Topic : Wildlife Safari Trip Management System

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We declare that this is our own work and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

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Exercise 1

The Wild Life Safari Trip Management System is an online system that gives an introduction to wild life.

Any user can log into this application efficiently from any smart device and save a lot of time by using this application.

The application can be used to know the information regarding safari tours, Such as the cost, locations. After customers who are registered into the system as a registered user, if the user needs to arrange a safari tour, he needs to reregister for a safari trip.

After doing so, he has to select the location, the package (basic, standard, or premium) and finally select the nationality (Sri Lankan/Foreign).

After user submits these details, they are collected by the receptionist and submitted to the Finance Manager, who then decides on a discount after considering the package and the nationality of the user.

Receptionists, IT Managers, Finance Managers, Drivers, Photographers are the staff members.

Further, if the user requires a photographer, he can make a request through the application and then a photographer can accept the request.

Before the photographer accepts the request, it is important that he verify the details of the customer.

After the photographer accepts the request, he has to send the details to the receptionist.

Then receptionist calculate the cost of the package, the driver's cost and the Photographer's cost and the approved discount, the Finance Manager then finalises the payment.

After the payment is finalized, it is sent to the receptionist and the user via email.

The payment can be done by credit card, debit card or through PayPal. After the payment is completed the user sends the payment proof to the receptionist via email.

Then receptionist has to log into the official email. After that receptionist has to check all the new emails, and download the payment proof.

Then receptionist has to log into the wallet page. Also checks the payment method and then verify that method.

After the receipt of payment is confirmed by verifying against the payment proof, the ticket and the map are issued to the user.

When the driver is taking the customer, he needs to feed into the system the location from time to time. Similarly, he should also inform the system of any challenges he might face.

In case of any emergency, the driver must contact the receptionist immediately and then the receptionist sends an emergency team to the exact location to assist the party.

Then photographer takes the photos and at the end of the trip, they can obtain the photos and receipt from the system and log-out.

If he likes, the user can also give a feedback based on his experience.

If the user wishes so, he can either get an album or individual photos depending on his requirement by making a request to the photographer.

The IT manager is the one who maintains the system frequently. The sample photos of the safari, photos and video clips are all uploaded to the system by the IT manager.

At the end of the month, the monthly report is made by the Finance Manager.

Noun/Verb Analysis

Wild Life Safari Trip Management System	Outside scope of system
System	Outside scope of system
Wild life	Outside scope of system
User	Class
Application	Redundant
Smart device	Outside scope of system
Safari tours	Class
Cost	An attribute
Location	An attribute
Customers	Meta language
Registered user	Class
Package	Class
Basic	An attribute
Standard	An attribute
Premium	An attribute
Nationality	An attribute
Details	An attribute
Staff	Class
Receptionist	Class
Finance Manager	Class
Discount	Class
Photographer	Class
Request	An event or operation
Driver's cost	An attribute
Photographer's cost	An attribute
Payment	Class
Credit card	Class
Debit card	Class
PayPal	Class
Payment proof	Class
Wallet page	Outside scope of system
Ticket	Class
Map	An attribute
Challenges	Outside scope of system
Driver	Class
The party	Outside scope of system

Photos	An attribute
Receipt	Class
Feedback	Class
Experience	Outside scope of system
Album	Class
IT manager	Class
Video clips	An attribute
Month	Outside scope of system
Monthly report	Class

Exercise 2

User	
Responsibilities	Collaboration
Log into the System	

Safari tours	
Responsibilities	Collaboration

Registered user		
Responsibilities	Collaboration	
Re-register for a safari trip		
Select the location		
Select the package	Package	
Select the nationality		
Requires a photographer	Photographer	
User sends the payment proof	Payment Proof, Receptionist	
Give a feedback	Feedback	
Get an album or individual photos	Album, Photographer	

Package		
Responsibilities	Collaboration	

Receptionist		
Responsibilities	Collaboration	
Collect details	Registered user	
Submit details	IT Manager	
Calculate the cost of the package	Package	
Log into the official email		
Check all the new emails		
Download the payment proof		
Log into the wallet page		
Checks the payment method	Payment proof	
Verify these payment details		
Issue the map and tickets		

Staff	
Responsibilities	Collaboration

Finance Manager		
Responsibilities	Collaboration	
Collect the details	Receptionist	
Decides the discount	Payment, Package	
Finalizes the payment	Payment	
Create monthly report	Monthly Report	

Discount		
Responsibilities	Collaboration	

Photographer		
Responsibilities	Collaboration	
Accept the request	Registered User	
Verify the details of the customer	Registered User	
Send the details	Receptionist	
Send the details to the receptionist and	Receptionist, User	
user	_	
Take the photos		

Payment	
Responsibilities	Collaboration

Credit card	
Responsibilities	Collaboration

Debit card	
Responsibilities	Collaboration

Pay Pal	
Responsibilities	Collaboration

Payment proof	
Responsibilities	Collaboration

Ticket	
Responsibilities	Collaboration

Driver	
Responsibilities	Collaboration
Contact the receptionist	Receptionist
Send the location	Receptionist

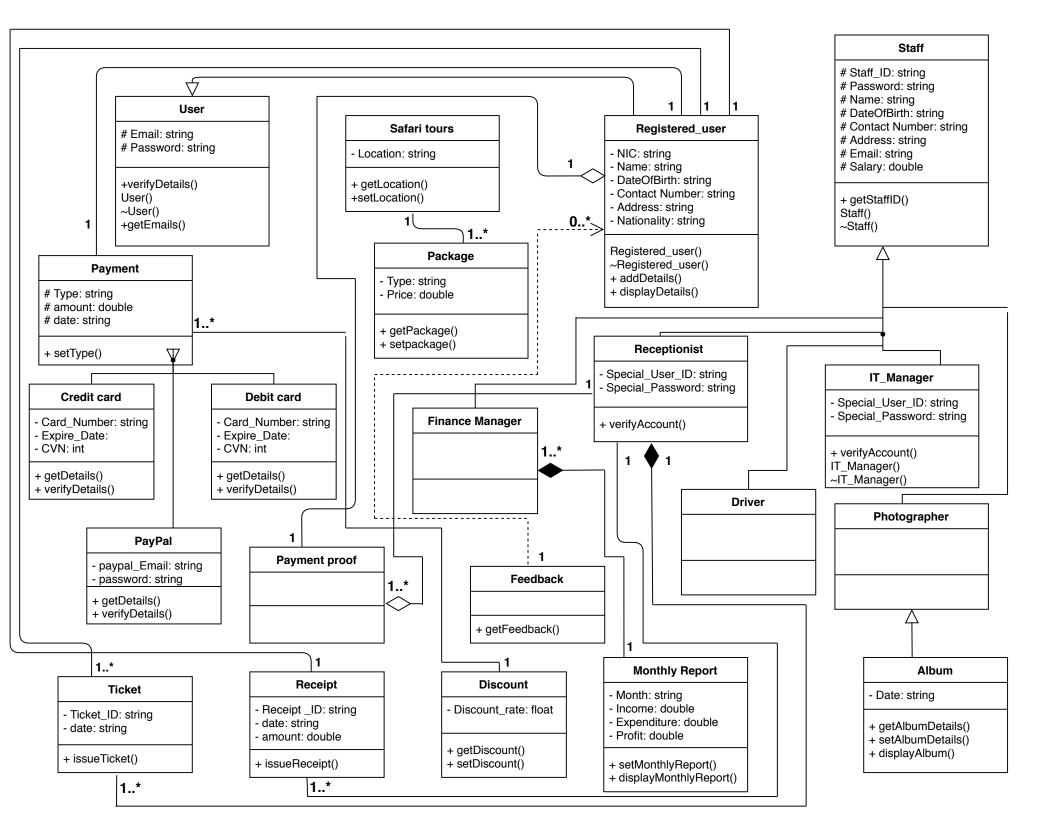
Receipt	
Responsibilities	Collaboration

Feedback	
Responsibilities	Collaboration

Album	
Responsibilities	Collaboration

IT Manager	
Responsibilities	Collaboration
Maintain the system	
Upload sample photos and videos to	
the system	

Monthly Report	
Responsibilities	Collaboration



Exercise 4

Main.cpp

```
#include <iostream>
#include <string>
#include "Staff.h"
#include "Finance Manager.h"
#include "Driver.h"
#include "Photographer.h"
#include "Receptionist.h"
#include "IT Manager.h"
#include "User.h"
#include "Registered User.h"
#include "Ticket.h"
#include "Safari Trip.h"
#include "Receipt.h"
#include "Package.h"
#include "Monthly_Report.h"
#include "Discount.h"
#include "Album.h"
#include "payment.h"
#include "Debit card.h"
#include "paypal.h"
#include "Credit Crard.h"
#include "Feedback.h"
using namespace std;
int main()
    Staff* member1 = new Finance Manager("STAFF0045");
    member1->setDetails("STAFF0045", "Poorna", "22179@123", "1990-10-15", "071-8645312",
"poorna123@gmail.com", 55000.00);
    member1->displayDetails();
    Staff* member2 = new Driver("STAFF0103");
    member2->setDetails("STAFF0103", "Amarasinha", "amare45#", "1975-08-10", "072-
3876903", "amare15416@gmail.com", 33000.00);
    member2->displayDetails();
    Staff* member3 = new Photographer("STAFF0532");
    member3->setDetails("STAFF0103", "Mihindu", "56$mihi@2000", "2000-10-05", "078-
4563245", "mihiphotography@outlook.com", 43000.00);
    member3->displayDetails();
    Staff* member4 = new Receptionist("STAFF0834");
    member4->setDetails("STAFF0103", "Oshani", "oshi33%$2", "1998-02-22", "077-2564321",
"oshiTharuka98@gmail.com", 40000.00);
    member4->displayDetails();
    /*Receptionist member4other;
    member4other.setReceptionistDetails("DatabaseRecep1", "dataBase123");
```

```
member4other.displayReceptionistDetails();*/
Staff* member5 = new IT_Manager("STAFF08764");
  member5->setDetails("STAFF08764", "Dulaksha", "Dulak35%$3", "2098-02-12", "077-
25353321", "dulaksha12398@gmail.com", 50000.00);
    member5->displayDetails();
   // User* member6 = new Registered User("abc@gmail.com");
    //member6->setDetails("abc@gmail.com","2000510", "Ajith", "2000.10.11", "0772075986",
"Gampaha", "Local");
    //member6->displayDetails();
    //Ticket tobject("456856");
    //Receptionist robject("STAFF0103", "Oshani", "oshi33%$2", "1998-02-22", "077-
2564321", "oshiTharuka98@gmail.com", 40000.00);
    Ticket t1;
    string s1;
    string s2;
    cout << "Enter Ticket ID : " << endl;</pre>
    cin >> s1:
    cout << "Enter Issued Date : " << endl;</pre>
    cin \gg s2;
    t1.issueTicket(s1, s2);
    Safari_Trip ss1;
    string ss2;
    cout << "Enter Your Location : " << endl;</pre>
    cin >> ss2;
    ss1.setlocation(ss2);
    ss1.getlocation();
    Staff* member10 = new Finance_Manager("STAFF0047");
    member10->setDetails("STAFF0047", "Kaushika", "th$456op", "1995-12-15", "070-
9645642", "Kdisanayaka16@yahoo.com", 53000.00);
    member10->displayDetails();
    Receipt r1;
    string sid;
    string sdate;
    double samount;
    cout << "Enter receipt ID : " << endl;</pre>
    cin >> sid;
    cout << "Enter date : " << endl;</pre>
    cin >> sdate;
    cout << "Enter amount : " << endl;</pre>
    cin >> samount;
```

```
r1.issueReceipt(sid, sdate, samount);
Package p1;
string tt1;
cout << "Enter the package type (Premium/ Standard or Basic) : " << endl;</pre>
cin >> tt1;
p1.setPackage(tt1);
p1.getPackage();
Monthly_Report m1;
string mm1;
double mm2;
double mm3;
double mm4{};
cout << "Enter Month : " << endl;</pre>
cin >> mm1;
cout << "Enter Income : " << endl;</pre>
cin >> mm2;
cout << "Enter Expenditure : " << endl;</pre>
cin >> mm3;
m1.setMonthlyReport(mm1, mm2, mm3, mm4);
m1.DisplayMonthlyReport();
Discount d1;
float f1;
cout << "Enter the discount rate : " << endl;</pre>
cin >> f1;
d1.setDiscount(f1);
d1.getDiscount();
//----//
payment pp1;
string pp2;
string pp3;
double pp4;
cout << "Enter your payment method (Credit/ Debit or PayPal) : " << endl;</pre>
cin >> pp2;
cout << "Enter your date :" << endl;</pre>
cin >> pp3;
cout << "Enter your ammount :" << endl;</pre>
```

```
cin >> pp4;
pp1.setType(pp2, pp3, pp4);
pp1.displayDetails();
Credit_Crard c1;
string cc1;
string cc2;
int cc3;
cout << "Enter your credit card number : " << endl;</pre>
cin >> cc1;
cout << "Enter the expire date : " << endl;</pre>
cin >> cc2;
cout << "Enter cvv : " << endl;</pre>
cin >> cc3;
c1.verifyDetails(cc1, cc2, cc3);
c1.getDetails();
Debit_Crard w1;
string j1;
string j2;
int j3;
cout << "Enter your credit card number : " << endl;</pre>
cin >> j1;
cout << "Enter the expire date : " << endl;</pre>
cin >> j2;
cout << "Enter cvv : " << endl;</pre>
cin >> j3;
 c1.verifyDetails(j1, j2, j3);
c1.getDetails();
     /*
           paypal r1;
      string b1;
      string b2;
      cout << "Enter your Email : " << endl;</pre>
      cin >> b1;
      cout << "Enter Your Password : " << endl;</pre>
      cin >> b2;
      r1.verifyDetails(b1, b2);
      r1.getDetails();*/
/* Feedback ff1;
```

```
string ss1;
cout << "Enter a feedback : " << endl;
cin >> ss1;

ff1.displayFeedback(ss1);*/

return 0;
}
```

User.h

```
#ifndef USER_H
#define USER_H
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
class User
{
protected:
       string Email;
       string Password;
       string nic, name, dob, contactno, address, nationality;
public:
       void verifyDetails(string e1, string e2);
      User(string Email);
       ~User();
       string getEmail();
       virtual void setDetails(string pnic, string pname, string pdob, string pcontactno,
string paddress, string pnationality);
       virtual void displayDetails();
};
#endif
```

User.cpp

```
#include "User.h"
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
void User::verifyDetails(string e1, string e2)
{
       Email = e1;
       Password = e2;
       cout << "Verified User!" << endl;</pre>
}
User::User(string Email)
       this->Email = "Non";
       this->Password = "Non";
       this->nic = "Non";
       this->name = "Non";
       this->dob = "Non";
this->contactno = "Non";
       this->address = "Non";
       this->nationality = "Non";
}
User::~User()
{
}
string User::getEmail()
{
       return Email;
}
void User::setDetails(string pnic, string pname, string pdob, string pcontactno, string
paddress, string pnationality)
{
       this->nic = pnic;
       this->name = pname;
       this->dob = pdob;
       this->contactno = pcontactno;
       this->address = paddress;
       this->nationality = pnationality;
}
void User::displayDetails()
{
       cout << "
                         User Account Details" << endl;</pre>
```

Ticket.h

```
#ifndef TICKET_H
#define TICKET_H
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
class Ticket
{
private:
       string Ticket_ID;
      string Date;
public:
       //Ticket(string pTicketID);
       //~Ticket();
       //void printTicket();
       void issueTicket(string tid, string date);
};
#endif
```

Ticket.cpp

```
#include "Ticket.h"
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
void Ticket::issueTicket(string tid, string date)
{
       Ticket_ID = tid;
       Date = date;
       cout << "Ticket ID : " << Ticket_ID << endl;</pre>
       cout << "Issued Date : " << Date << endl;</pre>
}
/*
Ticket::Ticket(string pTicketID)
{
       Ticket_ID = pTicketID;
}
Ticket::~Ticket()
{
}
void Ticket::printTicket()
       cout << "Ticket ID : " << Ticket_ID << endl;</pre>
}
*/
```

Staff.h

```
#ifndef STAFF_H
#define STAFF_H
#include <string>
#include <iostream>
      using namespace std;
       class Staff
       protected:
              string staffID, name, password, dateOfBirth, contactNo, email;
             double salary;
       public:
             Staff(string staffID);
             ~Staff();
             string getStaffID();
             virtual void displayDetails(void);
             virtual void setDetails(string pstaffID, string pname, string ppassword,
string pdateOfBirth, string pcontactNo, string pemail, double psalary);
};
#endif
```

Staff.cpp

```
#include "Staff.h"
#include <string>
#include <iostream>
using namespace std;
//Constructor
Staff::Staff(string staffID)
     this->staffID = "0";
     this->name = "Non";
     this->password = "Non";
     this->dateOfBirth = "Non";
     this->contactNo = "Non";
     this->email = "Non";
     this->salary = 0;
}
//Destructor
Staff::~Staff()
{
     cout << "Deleted Successfully" << staffID << endl;</pre>
}
string Staff::getStaffID()
{
     return staffID;
}
void Staff::displayDetails(void)
     cout << " Staff Account Details" << endl;</pre>
     cout << "@=======@" << endl;
     cout << "@=======@" << endl;
}
void Staff::setDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary)
{
     this->staffID = pstaffID;
     this->name = pname;
     this->password = ppassword;
     this->dateOfBirth = pdateOfBirth;
     this->contactNo = pcontactNo;
     this->email = pemail;
     this->salary = psalary;
}
```

Safari_Trip.h

```
#include <iostream>
#include <cstring>
#include <string>
using namespace std;

class Safari_Trip
{
  private:
        string location;
public:
        void setlocation(string s1);
        void getlocation();
};
```

Safari_Trip.cpp

```
#include "Safari_Trip.h"
#include <iostream>
#include <cstring>
#include <string>

using namespace std;

void Safari_Trip::setlocation(string s1)
{
        location = s1;
}

void Safari_Trip::getlocation()
{
        cout << "Location is : " << location << endl;
}</pre>
```

Registered_User.h

Registered_User.cpp

```
#include "Registered_User.h"
Registered_User::~Registered_User()
}
void Registered_User::addDetails(string pEmail, string pnic, string pname, string pdob,
string pcontactno, string paddress, string pnationality)
{
     this->Email = pEmail;
     this->nic = pnic;
     this->name = pname;
     this->dob = pdob;
     this->contactno = pcontactno;
     this->address = paddress;
     this->nationality = pnationality;
}
void Registered_User::displayDetails()
     cout << " Registered User Account Details" << endl;</pre>
     cout << "@=======@" << endl;
     cout << "Contact Number \t" << contactno << endl;</pre>
     cout << "Address \t" << address << endl;</pre>
     cout << "Nationality</pre>
                         \t" << nationality << endl;</pre>
     cout << "@=======@" << endl;
}
```

Receptionist.h

```
#ifndef RECEPTIONIST_H
#define RECEPTIONIST_H
#include <iostream>
#include <string>
//Inheritance
#include "Staff.h"
//Composition
#include "Ticket.h"
class Receptionist : public Staff
private:
       string* Special_User_ID;
       string* Special Password;
public:
       Receptionist(string staffID) : Staff(staffID) {};
       ~Receptionist();
       void addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary);
       void displayDetails();
       void setReceptionistDetails(string pSpecial User ID, string pSpecial Password);
       void displayReceptionistDetails();
};
#endif
```

Receptionist.cpp

```
#include "Receptionist.h"
Receptionist::~Receptionist()
}
void Receptionist::addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary)
{
   this->staffID = pstaffID;
   this->name = pname;
   this->password = ppassword;
   this->dateOfBirth = pdateOfBirth;
   this->contactNo = pcontactNo;
   this->email = pemail;
   this->salary = psalary;
}
void Receptionist::displayDetails()
   cout << "
                   Staff Account Details (Receptionist)" << endl;</pre>
   cout << "@=======@" << endl;
                             \t" << staffID << endl;</pre>
   cout << " Staff ID
   cout << "
              Name
                               \t" << name << endl;</pre>
   cout << " Password
                               \t" << password << endl;</pre>
```

```
cout << " Date of Birth \t" << dateOfBirth << endl;
cout << " Contact Number \t" << contactNo << endl;
cout << " Email \t" << email << endl;
cout << "Salary \t" << "Rs." << salary << ".00" << endl;
}

void Receptionist::setReceptionistDetails(string pSpecial_User_ID, string pSpecial_Password)

{
    *Special_User_ID = pSpecial_User_ID;
    *Special_Password = pSpecial_Password;
}

void Receptionist::displayReceptionistDetails()
{
    cout << " Special User ID \t" << Special_User_ID << endl;
    cout << " Special Password \t" << Special_Password << endl;
    cout << "@===========@" << endl;
}</pre>
```

Receipt.h

```
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
class Receipt
{
private:
       string Receipt_ID;
       string date;
       double amount;
public:
       void issueReceipt(string receipt, string d, double am);
};
Receipt.cpp
#include "Receipt.h"
void Receipt::issueReceipt(string receipt, string d, double am)
{
       Receipt_ID = receipt;
       date = d;
       amount = am;
       cout << "Receipt ID : " << Receipt_ID << endl;</pre>
       cout << "Date : " << date << endl;</pre>
       cout << "Amount : " << amount << endl;</pre>
}
```

Photographer.h

}

```
#ifndef PHOTOGRAPHER_H
#define PHOTOGRAPHER H
#include <iostream>
#include <string>
//Inheritance
#include "Staff.h"
class Photographer : public Staff
public:
      Photographer(string staffID) : Staff(staffID) {};
      ~Photographer();
      void addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary);
      void displayDetails();
};
#endif
Photographer.cpp
#include "Photographer.h"
Photographer::~Photographer()
{
}
void Photographer::addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary)
   this->staffID = pstaffID;
   this->name = pname;
   this->password = ppassword;
   this->dateOfBirth = pdateOfBirth;
   this->contactNo = pcontactNo;
   this->email = pemail;
   this->salary = psalary;
}
void Photographer::displayDetails()
   cout << "
                 Staff Account Details (Photographer)" << endl;</pre>
   cout << "@=======@" << endl;
   cout << " Date of Birth \t" << dateOfBirth << endl;</pre>
```

cout << "@=======@" << endl;

Paypal.h

Paypal.cpp

```
#include "paypal.h"
#include <iostream>
#include <cstring>
#include <string>

using namespace std;

void paypal::verifyDetails(string c1, string c2)
{
    paypal_Email = c1;
    password = c2;
}

void paypal::getDetails()
{
    cout << "PayPal Email : " << paypal_Email << endl;
    cout << "Password : " << password << endl;
}</pre>
```

Payment_Proof.h

```
class Payment_Proof
{
};
```

Payment_Proof.cpp

```
#include "Payment_Proof.h"
```

Payment.h

```
#include <iostream>
#include <cstring>
#include <string>
using namespace std;

class payment
{
protected:
        string type, date;
        double amount;
public:
        void setType(string p1, string p2, double p3);
        void displayDetails();
};
```

Payment.cpp

```
#include "payment.h"
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
void payment::setType(string p1, string p2, double p3)
       type = p1;
       date = p2;
       amount = p3;
}
void payment::displayDetails()
       cout << "User Payment Details" << endl;</pre>
       cout << "@=======@" << endl;
       cout << "Payment method is \t" << type << endl;</pre>
       cout << "Amount\t" << amount << endl;</pre>
       cout << "Card Date\t" << date << endl;</pre>
}
```

Package.h

```
#include <iostream>
#include <cstring>
#include <string>
using namespace std;

class Package
{
  private:
        string type;
        double price;
  public:
        void setPackage(string t1);
        void getPackage();
};
```

Package.cpp

```
#include "Package.h"
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
void Package::setPackage(string t1)
       type = t1;
}
void Package::getPackage()
       cout << "Selected package is : " << type << endl;</pre>
       if (type == "Premium")
       {
               cout << "Amount is 5000 " << endl;</pre>
       }
       else if (type == "Standard")
       {
               cout << "Amount is 2000" << endl;</pre>
       }
       else if (type == "Basic")
       {
               cout << "Amount is 1000" << endl;</pre>
       else
               cout << "Wrong Package Type " << endl;</pre>
}
```

Monthly_Report.h

```
#include <iostream>
#include <cstring>
#include <string>
using namespace std;

class Monthly_Report
{
    private:
        string Month;
        double Income;
        double Expenditure;
        double Profit;

public:
        void setMonthlyReport(string m, double i, double e, double p);
        void DisplayMonthlyReport();
};
```

Monthly_Report.cpp

```
#include "Monthly_Report.h"
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
void Monthly_Report::setMonthlyReport(string m, double i, double e, double p)
{
       Month = m;
       Income = i;
       Expenditure = e;
       Profit = p;
}
void Monthly_Report::DisplayMonthlyReport()
       double p1;
       cout << "Month : " << Month << endl;</pre>
       cout << "Income : " << Income << endl;;</pre>
       cout << "Expenditure : " << Expenditure << endl;</pre>
       p1 = Income - Expenditure;
       cout << "Proft : " << p1 << endl;</pre>
}
```

IT_Manager.h

```
#ifndef IT_MANAGER_H
#define IT_MANAGER_H
#include <iostream>
#include <string>
//Inheritance
#include "Staff.h"
class IT_Manager : public Staff
private:
       string* Special_User_ID;
       string* Special_Password;
public:
       IT_Manager(string staffID) : Staff(staffID) {};
       ~IT Manager();
       void addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary);
      void displayDetails();
       void setReceptionistDetails(string pSpecial_User_ID, string pSpecial_Password);
       void displayReceptionistDetails();
};
#endif
```

IT_Manager.cpp

```
#include "IT_Manager.h"
IT Manager::~IT Manager()
{
}
void IT_Manager::addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary)
{
   this->staffID = pstaffID;
   this->name = pname;
   this->password = ppassword;
   this->dateOfBirth = pdateOfBirth;
   this->contactNo = pcontactNo;
   this->email = pemail;
   this->salary = psalary;
}
void IT_Manager::displayDetails()
   cout << "
                   Staff Account Details (IT Manager)" << endl;</pre>
   cout << "@=======@" << endl;
   cout << " Staff ID \t" << staffID << endl;
   cout << "
              Name
                               \t" << name << endl;</pre>
   cout << " Password
                               \t" << password << endl;</pre>
   cout << " Date of Birth \t" << dateOfBirth << endl;
cout << " Contact Number \t" << contactNo << endl;
   cout << " Email
                                \t" << email << endl;</pre>
                                \t" << "Rs." << salary << ".00" << endl;
   cout << " Salary</pre>
}
void IT_Manager::setReceptionistDetails(string pSpecial_User_ID, string
pSpecial_Password)
{
    *Special User ID = pSpecial User ID;
    *Special_Password = pSpecial_Password;
}
void IT_Manager::displayReceptionistDetails()
   cout << "
               Special User ID \t" << Special_User_ID << endl;</pre>
   cout << "
               Special Password \t" << Special_Password << endl;</pre>
   cout << "@=======@" << endl;
}
```

Finance_Manager.h

```
#ifndef FINANCE_MANAGER_H
#define FINANCE_MANAGER_H

#include <iostream>
#include <string>

//Inheritance
#include "Staff.h"

class Finance_Manager : public Staff
{
public:
        Finance_Manager(string staffID) : Staff(staffID) {};
        ~Finance_Manager();
        void addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary);
        void displayDetails();
};
#endif
```

Finance_Manager.cpp

```
#include "Finance_Manager.h"
#include <iostream>
#include <string>
using namespace std;
Finance_Manager::~Finance_Manager()
{
}
void Finance_Manager::addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary)
{
   this->staffID = pstaffID;
   this->name = pname;
   this->password = ppassword;
   this->dateOfBirth = pdateOfBirth;
   this->contactNo = pcontactNo;
   this->email = pemail;
   this->salary = psalary;
}
void Finance_Manager::displayDetails()
{
   cout << "
             Staff Account Details (Finance Managers)" << endl;</pre>
   cout << "@=======@" << end1;
   cout << " Staff ID \t" << staffID << endl;</pre>
   cout << "
                        \t" << name << endl;</pre>
  Name
   cout << "@-----@" << endl;
}
```

Feedback.h

```
#include <iostream>
#include <cstring>
#include <string>
using namespace std;

class Feedback
{
private:
        string feedback;

public:
        void displayFeedback(string f1);
};
```

Feedback.cpp

```
#include "Feedback.h"
#include <iostream>
#include <cstring>
#include <string>
using namespace std;

void Feedback::displayFeedback(string f1)
{
     feedback = f1;
     cout << "Feedback : " << endl;
}</pre>
```

Driver.h

Driver.cpp

```
#include "Driver.h"
Driver::~Driver()
{
}
void Driver::addDetails(string pstaffID, string pname, string ppassword, string
pdateOfBirth, string pcontactNo, string pemail, double psalary)
{
   this->staffID = pstaffID;
   this->name = pname;
   this->password = ppassword;
   this->dateOfBirth = pdateOfBirth;
   this->contactNo = pcontactNo;
   this->email = pemail;
   this->salary = psalary;
}
void Driver::displayDetails()
{
   cout << "
                      Staff Account Details (Driver)" << endl;
   cout << "@-----@" << endl;
   cout << "
             Staff ID \t" << staffID << endl;</pre>
   cout << "
                             \t" << name << endl;</pre>
              Name
   cout << "
                            \t" << password << endl;</pre>
              Password
   cout << " Date of Birth \t" << dateOfBirth << endl;</pre>
   cout << " Contact Number \t" << contactNo << endl;</pre>
                           \t" << email << endl;
\t" << "Rs." << salary << ".00" << endl;
   cout << " Email
   cout << " Salary
   cout << "@=======@" << end1;
}
```

Discount.h

```
class Discount
{
private:
     float Discount_rate;
public:
     void setDiscount(float dr);
     void getDiscount();
};
```

Discount.cpp

```
//Discount.cpp file

#include "Discount.h"
#include <iostream>
#include <cstring>
using namespace std;

void Discount::setDiscount(float dr)
{
        Discount_rate = dr;
}

void Discount::getDiscount()
{
        cout << "Discount rate is : " << Discount_rate << endl;
}</pre>
```

Debit_card.h

```
#include <iostream>
#include <cstring>
#include <string>

using namespace std;
class Debit_Crard
{
private:
        string Card_NUmber;
        string Expire_Date;
        int Cvv;
public:
        void verifyDetails(string a1, string a2, int a3);
        void getDetails();
};
```

Debit_card.cpp

```
#include "Debit_card.h"
#include <iostream>
#include <cstring>
#include <string>

using namespace std;

void Debit_Crard::verifyDetails(string a1, string a2, int a3)
{
        Card_NUmber = a1;
        Expire_Date = a2;
        Cvv = a3;
}

void Debit_Crard::getDetails()
{
        cout << "Card Number : " << Card_NUmber << endl;
        cout << "Expire Date : " << Expire_Date << endl;
        cout << "CVV \t" << Cvv << endl;
}</pre>
```

Credit_Crard.h

Credit_Crard.cpp

```
#include "Credit_Crard.h"
#include <iostream>
#include <cstring>
#include <string>

using namespace std;

void Credit_Crard::verifyDetails(string s1, string s2, int s3)
{
        Card_NUmber = s1;
        Expire_Date = s2;
        Cvv = s3;
}

void Credit_Crard::getDetails()
{
        cout << "Card Number : " << Card_NUmber << endl;
        cout << "Expire_Date : " << Expire_Date << endl;
        cout << "CVN \t" << Cvv << endl;
}
</pre>
```

Album.h

```
#include <iostream>
#include <cstring>
#include <string>
using namespace std;

class Album
{
  private:
        string Date;
  public:
        void setAlbumDetails(string d1);
        int getAlbumDetails();
        void displayAlbum();
};
```

Album.cpp

```
#include "Album.h"
#include <iostream>
#include <cstring>
#include <string>
using namespace std;
void Album::setAlbumDetails(string d1)
{
       Date = d1;
}
int Album::getAlbumDetails()
{
       return 0;
}
void Album::displayAlbum()
       cout << "Date : " << Date << endl;</pre>
       cout << "200 photos and 10 videos included in the album! " << endl;</pre>
}
```

Output

